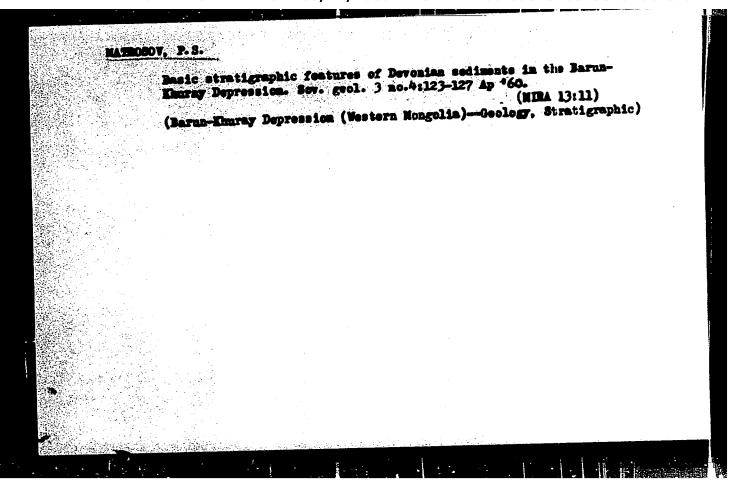
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	Policia And SSSR, 96, 124, 4, pag	je 806, June 1954
	of the Tanu-Ola mountain ranged that	covered at the northern slopes e (Tuva region), were identif- the Elfelian deposits in Wes- of the mountainous range. The outlined:
Plant with the	All-Union Scientific-Research	Geological Institute
	Academician D. V. Waliwkin, B	arch 9, 1964

DANZAN HUTOCHI ; MATROSOV, P.S.

Stratigraphy and facies of Devonian sediments in the northwestern part of the Mongolian Altai. Sov. geol. 2 no.6:31-37 Je '59. (MIRA 12:12)

1. Vsesoyusnyy nauchno-issledovatel'skiy geologicheskiy institut (VSEGEI) i Komitet nauk Mongol'skoy Marodnoy Respubliki. (Altai Mountains-Geology, Stratigraphic)



AMANTOV, V.A.; MATROSOV, P.S. Basic characteristics of the geotestonic development and distribution of Magolian structures in the systems of the Altai-Sayan and Mongolian-Amur fold areas. Trudy VSECEI 58:183-206 '61. (MIRA 15:5) (Siberia-Geology, Structural) (Mongolia-Geology, Structural)

AMANTOV, V.A.; DANZAN BUTOCHI; MATROSOV, P.S.

Development of geological structures of western Mongolia. Izv. AN SSSR.Ser.geol. 27 no.8:21-35 Ag 62. (MIRA 15:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut i Mongol'skoye geolog-razvedochnoye upravleniye, Ulan-Bator.

(Mongolia-Geology, Structural)

AMANTOV, V.A.; MATROSOV, P.S.

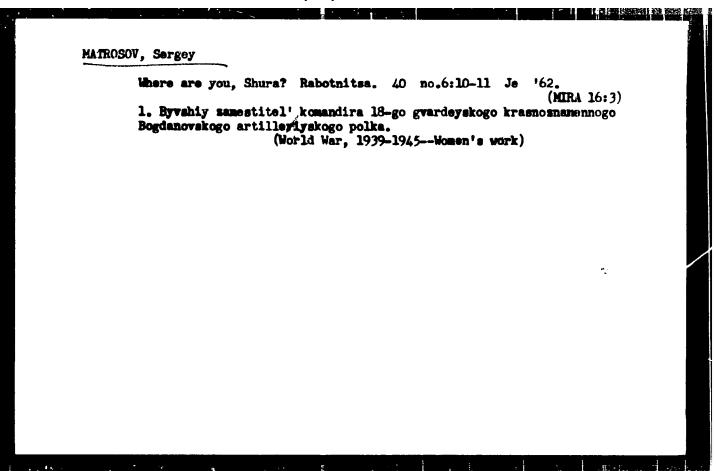
Granitoids of southwestern Mongolia. Trudy VSECEI 100:109-144

163. (MIRA 17:3)

MATROSOV, P. S.; SINITSYN, V. M.

A new land mark in the geological study of Mongolia.

INV. AN SSSR. Ser. geol. 29 no. 1:110-111 Ja '64. (MIRA 17:5)



(MATROSOV, S.A., kand. med. nauk [deceased]

Local decalcination and its use in the treatment of chronic ossifying arthrosis. Vest. khir. 91 no.11:94-98 N *63. (MIRA 17:12)

1. Iz kliniki obshchey khirurgii (zav. - prof. V.I.Korkhov) Leningradskogo pediatricheskogo meditsinskogo instituta na baze bol'nitsy imeni OGPU.

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R032932910013-8

MATROSOV, V. M., Cand of Tech Sci — (diss) "Certain Problems of the Stability Hygroscopic Systems," Kazan', 1959, 11 pp (Kazan' swiation Institute) (KL, 5-60, 126)

MATROSOV. V.M.; KUZ'MIN, P.A., doktor fiz.-matem.nauk, otv.red.;

IEVGRIFOVA, L.N., otv.za vypusk

[Stability of gyroscopic systems] K voprosu ustoichivosti
giroskopicheskikh sistem. Kazan', 1959. 23 p. (Kazan.
Aviatsionnyi institut. Trudy, vol.49)

(Gyroscope)

(MIRA 14:2)

S/124/61/000/011/008/046 D237/D305

13-2520

Matrosov, V.M.

TITLE:

On stability problems of dissipative gyroscopic

systems

PERIODICAL:

Referativnyy zhurnal, Mekhanika, no. 11, 1961, 15, abstract 11A122 (Tr. Kazansk. aviats. in-ta, 1959,

45. 63 - 76)

TEXT: A mechanical system is considered with n degrees of freedom, acted upon by gyroscopic and dissipative (with full dissipation) forces only. For the case when equations of motion have constant coefficients, D.R. Markin proved the theorem on stability of trivial solution, $\mathbf{q}_1 = \mathbf{q}_2 = \cdots = \mathbf{q}_n = 0$, $\mathbf{q}_1 = \mathbf{q}_2 = \cdots = \mathbf{q}_n = 0$.

Here a theorem is proved which is a generalization of the above and which refers to the case when coefficients of the equations may be dependent on coordinates q₁, ... q_n and some parameters. An application of this theorem investigation of the stability of mechanical

Card 1/2

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On stability problems of ...

S/124/61/000/011/008/046 **D237/D3**05

systems containing gyroscopes, is shown. [Abstractor's note: Complete translation].

B

Card 2/2

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S/040/60/024/005/003/028 C111/C222

AUTHOR: Matrosov, V.M. (Kazan')

TITLE: On the Stability of Gyroscopic Stabilizers

PERIODICAL: Prikladnaya matematika i mekhanika, 1960, Vol. 24, No.5, pp. 802-808

TEXT: Let q_1, \ldots, q_n be generalized coordinates of the system; let q_{m+1}, \ldots, q_n be the rotation angles of the imbedding plate, the suspension frames around the stabilizing axes; the q_1, \ldots, q_m ($\frac{n}{2} \le m \le n$) contain the rotation angles of the gyroscope casings q_1, \ldots, q_1 ; l=n-m. Let the moments of the servos around the stabilizing axes be holomorphic functions of $q_1, \ldots, q_1, q_1, \ldots, q_n$:

$$M_{k} = -\sum_{j=1}^{l} c_{kj} q_{j} - \sum_{j=1}^{n} b_{kj}^{n} q_{j} + M_{k}^{n} (q_{1}, \dots, q_{1}, q_{1}, \dots, q_{n})$$

$$(k = m+1, \dots, n),$$

where ckj, bin are constants, Mi are nonlinearities. On the system Card 1/5

87780 5/040/60/024/005/003/028 C111/C222

On the Stability of Gyroscopic Stabilizers

there act still dissipative forces with the scattering function R being a holomorphic function of the $q_1,\ldots,q_n,$ $\dot{q}_1,\ldots,\dot{q}_n$ and

beginning with $R^{(2)} = \frac{1}{2} \sum_{k,j=1}^{n} b_{kj} \dot{q}_{k} \dot{q}_{j}$.

Then the motion equations of the gyroscopic stabilizer read:

$$\frac{dq_k}{di} = \dot{q}_k, \qquad \frac{d}{di} \left(\frac{\partial T}{\partial \dot{q}_k} \right) - \frac{\partial T}{\partial q_k} = -\sum_{j=1}^n \left(g_{kj} + b_{kj} \right) \ q_j - \frac{\partial \left(R - R^{(2)} \right)}{\partial \dot{q}_k}$$

$$(k = 1, \dots, m)$$

$$\frac{dq_k}{di} = \dot{q}_k, \frac{d}{di} \left(\frac{\partial T}{\partial \dot{q}_k} \right) - \frac{\partial T}{\partial q_k} = -\sum_{j=1}^n \left(g_{kj} + b_{kj} + b_{kj}'' \right) \dot{q}_j - \dots$$

$$\vdots \qquad \vdots \qquad \vdots$$

$$-\sum_{j=1}^n c_{kj} q_j + M_k' - \frac{\partial \left(R - R^{(2)} \right)}{\partial \dot{q}_k} \qquad (k := m+1, \dots, n)$$

$$T = \frac{1}{2} \sum_{k, j=1}^n a_{kj} \dot{q}_k \dot{q}_j i \qquad (a_{kj} = a_{jk})$$

Card 2/5

8**.780** S/040/60/024/005/003/028 C111/C222

On the Stability of Gyroscopic Stabilizers

Here T is a quadratic form of the velocities being positive definite for $q_1 = \dots = q_n = 0$; the $a_{kj}, g_{kj} = -g_{jk}$ are holomorphic in q_1, \dots, q_n , where

$$\mathbf{a}_{\mathbf{k}\mathbf{j}}(0,\ldots,0) \subseteq \mathbf{a}_{\mathbf{k}\mathbf{j}}^{0}, \quad \mathbf{g}_{\mathbf{k}\mathbf{j}}(0,\ldots,0) \subseteq \mathbf{g}_{\mathbf{k}\mathbf{j}}^{0}$$

The author investigates the stability of the undisturbed motion

(1.2)
$$q_1 = 0, ..., q_n = 0, \dot{q}_1 = 0, ..., \dot{q}_n = 0.$$

Theorem 1: If the roots of the equation

(1.4)
$$\|\mathbf{a}_{kj}^{\circ} \, \lambda^{2} + (\mathbf{g}_{kj}^{\circ} + \mathbf{b}_{kj}) \, \lambda \| \|\mathbf{a}_{kj}^{\circ} \, \lambda + \mathbf{g}_{kj}^{\circ} + \mathbf{b}_{kj} \|$$

$$\|\mathbf{a}_{kj}^{\circ} \, \lambda^{2} + (\mathbf{g}_{kj}^{\circ} + \mathbf{b}_{kj} + \mathbf{b}_{kj}^{\circ}) \, \lambda + \mathbf{c}_{kj} \| \|\mathbf{a}_{kj}^{\circ} \, \lambda + \mathbf{g}_{kj}^{\circ} + \mathbf{b}_{kj} + \mathbf{b}_{kj}^{\circ} \|$$

have negative real parts: (1.5) Re $\frac{\pi}{k} < 0$ (k=1,...,n+1) Card $\frac{3}{5}$

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On the Stability of Gyroscopic Stabilizers

then the undisturbed motion (1.2) of the system (1.1) with respect to $\mathbf{q_1}, \dots, \mathbf{q_n}, \ \mathbf{\hat{q}_1}, \dots, \mathbf{\hat{q}_n}$ is stable. Every disturbed motion approximates asymptotically one of the motions

(1.6)
$$\dot{q}_1 = 0, \dots, \dot{q}_n = 0, \quad q_1 = 0, \dots, q_1 = 0, \dots, q_1 = 0, \dots, q_1 = 0, \dots, q_n =$$

Considering in (1.1) besides the disturbances caused by imbalance, excentricity etc. then still certain parameters a must be introduced.

Theorem 2: If (1.5) is satisfied then the undisturbed motion

$$q_1 = 0, ..., q_n = 0$$
 $q_1 = 0, ..., q_n = 0$

$$a_1 = \alpha_1, ..., a_i = \alpha_i, a_{i+1} = 0, ..., a_{i+1} = 0$$

for parameter disturbances is stable with respect to q_1,\ldots,q_n , q_1,\ldots,q_n . Card 4/5

57780

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On the Stability of Gyroscopic Stabilizers

Every disturbed motion tends asymptotically to one of the motions

$$q_1 = 0, \dots, q_n = 0, \qquad q_{l+1} = c_{l+1}, \dots, q_n = c_n,$$

$$q_k = v_k(a_1, \dots, a_{l+1}, c_{l+1}, \dots, c_n) \qquad (k=1, \dots, 1).$$

As an example the author considers a biaxial imbedding plate stabilized by two gyroscopes and by motors regulated by them (cf. (Ref 7)). It is shown that for a stopped servomotor every equilibrium position for parameter disturbances caused by an imbalance of the imbedding or of the frame, is unstable.

There is 1 figure and 11 references: 10 Soviet and 1 American

[Abstracter's note: (Ref.7) is a paper of N.T.Kuzovkov in Izv AN SSSR, OTN, 1958, No.1]

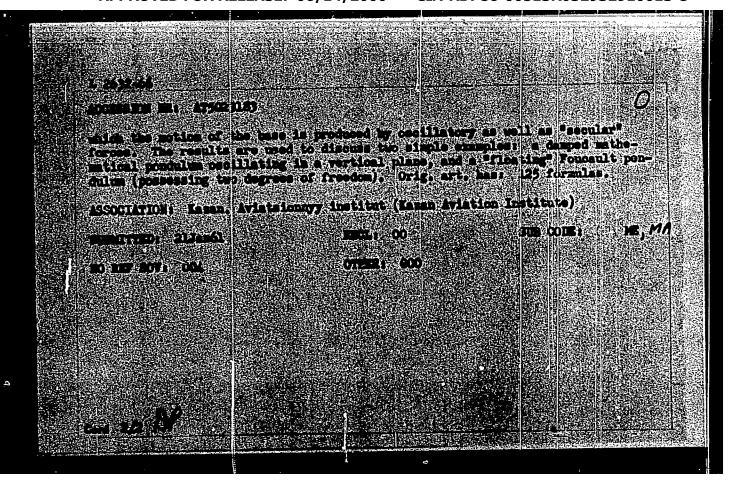
SUBMITTED: March 16, 1960

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S/040/62/026/005/007/016 D234/D308

. AUTHOR:

Matrosov, V. M. (Kazan')

TITLE:

On the stability of motion

PERIODICAL: Prikladnaya matematika i mekhanika, v. 26, no. 5, 1962,

885-895

TEXT: The author considers the equations of disturbed motion

$$\frac{dx_i}{dt} = X_i(x_1, \dots, x_n, t) \qquad (i = 1, \dots, n)$$
 (1.1)

the functions X_i being subject to certain limitations, and Lyapunov's functions V(x,t), W(x,t), which are real and continuous together with their time derivatives, also functions $V^*(x)$, V'(x). Seven theorems are proved: 1) If V is definite positive and admits an infinitely small upper limit, $V \leq V^* \leq 0$, W is bounded and $W \neq 0$ definitely in the set $E(V^* = 0)$ (i.e. the set of points x for which Card 1/3

On the stability of motion.

S/040/62/026/005/007/016 D234/D308

 $V^*=0$), then the disturbed motion (1.1) is asymptotically stable. 2) If V is definite positive, $V \le 0$ and the partial derivatives of V with respect to x_g and t up to the second order are continuous and bounded, W is bounded and $W \ne 0$ definitely in $E_t(V=0)$ (i.e. the set where V=0 for a given t), then the undisturbed motion of the system is asymptotically stable. 3) If V is definite positive and admits an infinitely small upper limit, V:0; in every domain $t \ge 0, \alpha < \|x\| < H$, $V \le \varphi_{\alpha}(t)V^*$, $V^* \le 0, \varphi_{\alpha}(t)$ being continuous, non-negative and the integral of φ_{α} along any infinite system of closed non-intersecting sections of the semiaxis $(0, \infty)$ of equal length being infinite. W is bounded and $W \ne 0$ rigorously in $E(V^*=0)$, the undisturbed motion of the system is asymptotically stable. 4) Under the same conditions as in theorem 2, except that $W \ne 0$ rigorously in the sets $E_t(V=0)$, the undisturbed motion is asymptotically stable. 5) Under the conditions of theorem 3, except that W admits an upper limit, infinitely small in the set $E(V^*=0)$ and $W \ne 0$ Card 2/3

On the stability of motion

S/040/62/026/005/007/016 D234/D308

definitely in the same set, the undisturbed motion of the system is asymptotically stable. 6) If V admits an infinitely small upper limit and for any $t \geqslant 0$ there are points x lying in an arbitrarily small domain of undisturbed motion and having V > 0; $V \geqslant 0$ and in every domain $t \geqslant 0$, $0 \leqslant ||x|| \leqslant A \leqslant H$, $V \geqslant \varphi(t)V'$, $V' \geqslant 0$, W is bounded and $W \neq 0$ rigorously in E(V' = 0), then the undisturbed motion of the system is unstable. 7) Under the condition of theorem 6 referring to V, if $V \geqslant 0$ and the partial derivatives of V are continuous and bounded as in theorem 2, W and W being as in theorem 4, then the undisturbed motion of the system is unstable. The author considers applications of these theorems to the motion of a symmetrical heavy solid body with one fixed point in the presence of resistance of the medium and a non-stationary mechanical system under the action of potential gyroscopic and dissipative forces (as examples). The author acknowledges the assistance of P. A. Kuz'min.

SUBMITTED: December 21, 1961

Card 3/3

S/040/62/026/006/001,1015 D234/D308

AUTHOR:

Matrosov. V.M., (Kazan')

TITLE:

On the theory of stability of motion

PERIODICAL: Prikladnaya matematika i mekhanika, v. 26, no. 6, 1962, 992 - 1002

TEXT: The author attempts to use simultaneously several functions V, each satisfying less rigorous conditions than in Lyapunov's second method. Chaplygin's theory of differential inequalities and a theorem of T. Ważewski (Ann. de la Soc. Pol. de Math. 1950, 23). Two general theorems are proved and a criterion of stability of instability is deduced for a function V(x, t) whose k-th derivative is not larger than $f(V, V^{(1)}, \dots, V^{(k-1)}, t)$. For the case of a linear f and k=2 the following theorems are proved: 1) If V(x, t) is positive definite and $V^{(2)}$ is not larger than $p(t)V^{(1)}$, where p(t) satisfies

Card 1/2

S/040/62/026/006/001/015 On the theory of stability of motion D234/D308

$$\int_{t_0}^{\infty} \exp \int_{t_0}^{t} p(\tau) d\tau dt < \infty$$
 (3.1)

then the undisturbed motion x = 0 of the system

$$\frac{dx_i}{dt} = X_i(x_1, ..., x_n, t)$$
 (i = 1, ..., n) (1.1)

is stable. 2) If V is bounded, $V(2) \ge aV + 2bV(1)$, a, b are constants, b ≥ 0 if a = 0, and $(\sqrt{b^2 + a} - b)V + V(1)$ can be positive for any small //x// and any t ≥ 0 , then the undisturbed metion of the system (1.1) is unstable. 3) If V is bounded, V and V(1) can be positive at the same time for any small //x// and t ≥ 0 and $V(2) \ge 0$ when they are positive, then the undisturbed motion of the system (1.1) is unstable.

SUBMITTED: June 30, 1952

Card 2/2

MATROSOV, V.M. (Kazan')

"The development of the method of Lyapunov functions in the stability theory".

report presented at the 2nd All-Union Congress on Theoretical and Applied

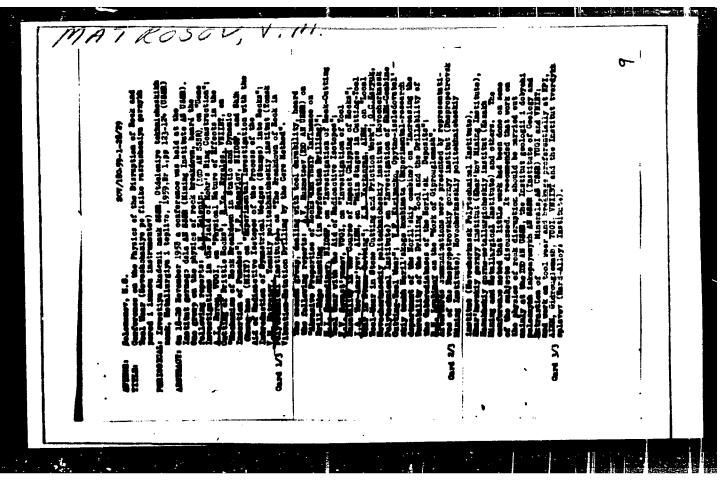
Mechanics, Moscow, 29 Jan - 5 Feb 6h.

AMINOV, M.Sh., red.; EOGOYAVLENSKIY, A.A., red.; KALININ, S.V., red.; KUZ'MIN, P A., red.; LUR'YE, A.I., red.; MATROSOV, Y.M., red.; RUMYANTSEV, V.V., red.; SRETENSKIY, L.N., red.

[Proceedings of the interuniversity conference on the applied theory of the stability of motion and on analytic mechanics] Trudy Meshvusovskoi konferentsii po prikladnoi teorii ustoichivosti dvizheniia i analiticheskoi mekhanike. Kazan, Kasanskii aviatsionnyi in-t, 1964. 144 p. (MIRA 18:12)

1. Mezhvuzovskaya nauchnaya konferentsiya po analiticheskoy mekhanike i ustoychivosti dvishaniya, Kazan, 1962.

Mew method for directional lowering of the drilling stem into wells. Rasved.1 okh.nedr 23 no.8:52-54 Ag '57. (MIRA 10:11) 1. Tomskiy politekhnicheskiy institut. (Boring machinery)



SOV/132-59-2-5/16

14(5) AUTHORS:

Molchanov, V.I.; Matrosov, V.M.

TITLE:

On the Choice of Initial Parameters for Vibration-Rotary Action Drilling Machines (K vyboru iskhodnykh parametrov buril'nykh mashin vibratsionno-vrashchatel'nogo deystviya)

PERIODICAL:

Razvedka i okhrana nedr, 1959, Nr 2, pp 25 - 30 (USSR)

ABSTRACT:

The article describes the results of six years of research conducted by a group of scientists of the Kafedra tekhniki razvedki (Department of Prospecting Technology) of the Tomsk Polytechnical Institute, on the creation of highly productive drilling rigs and the improvements of existing drilling processes. It was found by empirical and graphical computations that: 1) the volume of rock crumbled by one percussion depends on the angle of percussion and reaches its maximum at the angle of the most advantageous application of force (P) which in addition to the angle of friction (P); 2) the maximum efficiency of percussion-rotary and vibration-rotary drilling is obtained

Card 1/2

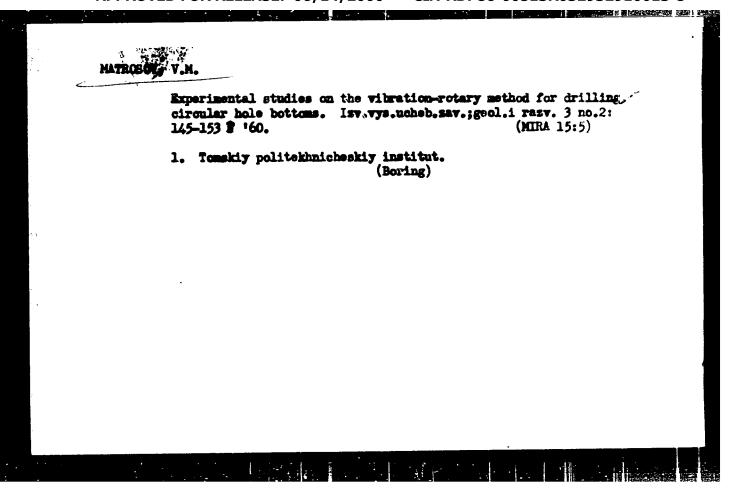
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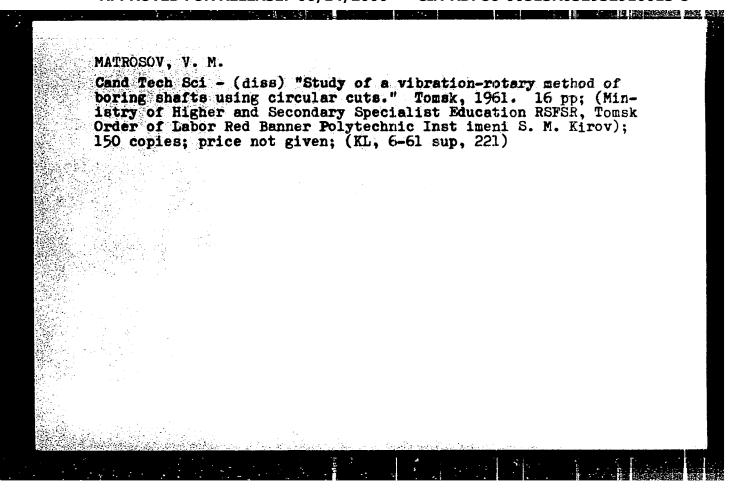
On the Choice of Initial Parameters for Vibration-Rotary Action Drilling Machines

at such correlation of oscillation frequency with the rotation speed at which the direction of the percussion coincides with the angle θ ; 3) the experimentally found values of the angle θ permit the calculating of axial speed of the drilling bit at the moment of percussion at a given speed of the drill; 4) the rotary speed of the drill and the calculated axial speed of the bit are the initial parameters for the choice of the optimal drilling regime and for the construction of vibration-rotary drilling machines. The analytical and graphic computations are described in detail. The author mentions the following scientists who took part in this research: I.S. Mityushkin; G.I. Tolstykh; G.A. Kushnikov and V.I. Butov. There are 2 graphs and 1 set of graphs, 2 diagrams, 2 tables and 4 Soviet references.

ASSOCIATION: (SNIIGGIMS)

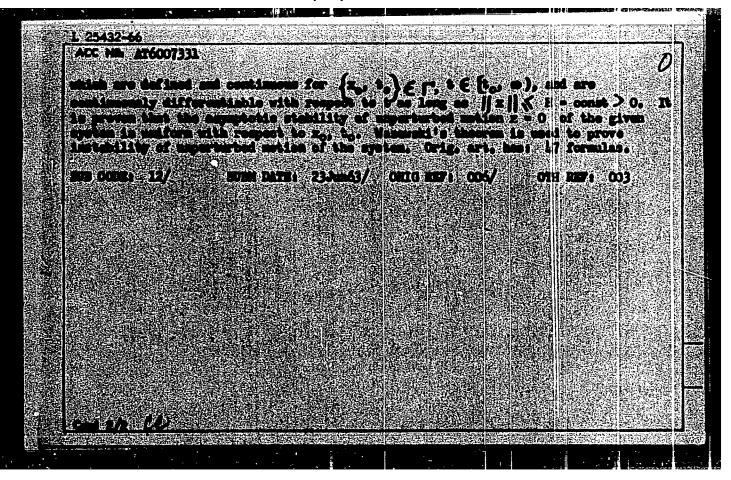
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29902-66 EWI(d) IJP(c) SOURCE CODE: UR/0044/65/000/008/B043/B043 ACC NR. AR5028209 $\Rightarrow 4$ AUTHOR: Matrosov, V. M. \mathcal{B} TITLE: Theory of motion stability. Part III. SOURCE: Ref. sh. Matematika, Abs. 8B241 HEF SOURCE: Tr. Mezhvuz. konferentsii po prikl. teorii ustoychivosti dvizheniya i analit. mekhan., 1962. Kazan', 1964, 103-109 TOPIC TAGS: motion stability, second order equation ABSTRACT: The condition of stability and instability for systems of the second order and systems in the normal form were discussed. The second derivative of the Lyapunov function or some correlation of the right sides of the equations were used. V. Zubov į. SUB CODE: SUBM DATE: none £ 186 .. Cord 1/1 ce VDC: 517.917

MATROSOV, V.M.; SPIRIDONOV, B.I.

Analysis of the operation of a hinge diverting device. Izv. vys. ucheb. zav.; geol. i razv. 7 no.2:132-136 F'64. (MIRA 17:2)

1. Tomskiy politekhnicheskiy institut.

SULAKSHIN, S.S.; MATROSOV, V.M.; SPIRIDONOV, B.I.

Controlled-angle drilling of exploratory boreholes in the Ampalykskii deposit. Razved. 1 okh. nedr 30 no.2:30-33 F '54.

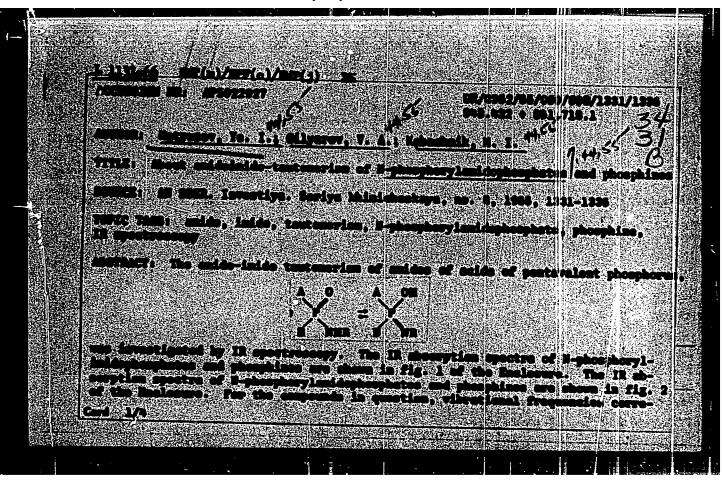
1. Tomskiy politekhnicheskiy institut.

(MIRA 17:8)

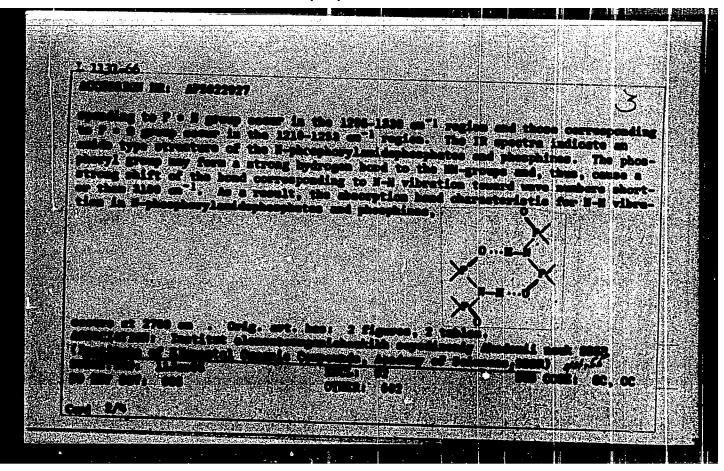
KABACHNIK, M.I.; GILYAROV, V.A.; CHZHAN CHZHEN-DE[Chand Ching-tieh]_MATROROV, Ye.I.

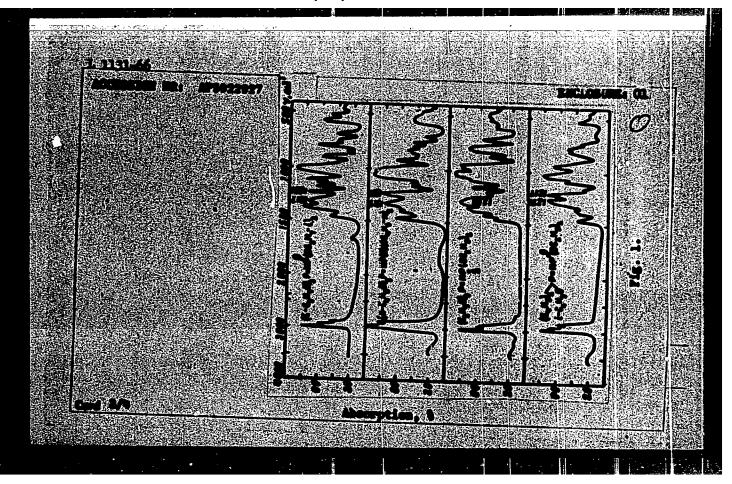
Problem of tautomerism of N-acylamidophosphates and N-acylamidophosphinates... Isv.AN SSSR.Otd.khim.nauk no.9:1589-1599 S *62. (MIRA 15:10)

1. Institut elementoorganicheskikh soypdinamiy AN SSSR. (Phosphoramitic acid) (Phosphinamidic acid) (Tautomerism)

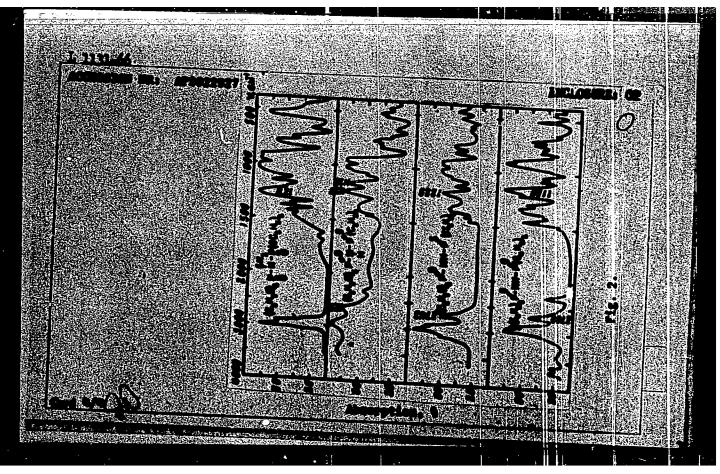


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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R032932910013-8



KABACHNIK, M.I.; MASTRYUKOVA, T.A.; MATROSOV, Ye.I.; FISHER, B.

Infrared spectra and structure of phosphorus monothicacids. Zhur.strukt.khim. 6 no.5:690-698 S-0 65.

(MIRA 18:12)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. Submitted February 12, 1965.

ANDRIANOV, K.A.; MANEVICH, I.Ya.; BUSLAYEV, Yu.A.; MATROSOV, Ye.I.

Acid salts of methylphosphinic acid. Zhur. neorg. khim. 1. no.3:596-600 Mr '65. (MTRA 18:")

1. Institut elementoorganicheskikh soyedineniy AN SSSR i Institut obshchey i neorganicheskoy knim'i imeni E.S. Kurnakova /N SSSR.

20840-66 ENT(w)/EMP(+) RM ACC MAI APPOINTS 507和250000 1 2010000/65/2162/002/0339/0342 Diffice Tolerand | 12 | (Landwicks) | Balled | Police | Street | 10 1: The state of the s le crante sail, staticule, chancal ine aveneral but at their alsocial Bir alphasy to hospitarity. e dioxide of tetraphenylanthylened prosphine which aloxide and they broth alteration about the compared two polarity for valives separate the far valives in analytically pure fore, studied their infrared spectra, and their resptions plin form, studied their intrared spectra, and their reaptions with aldebytes. The changes in the intrared spectrum of dioxide men it forms make sorresponds to that of bid-dimity) phosphory?—
methane, distayiphosphorylacetore, and acetylacetore when they core mate. Benetions of dioxide all solts with lackydes was investigated with the potential malt. They result in the formation of oxides of phosphines, containing beta-substituted viny; groups, and the potential selt of diphenylaphosphinic acid. The reaction cours cold with a remarkle and with all phentic acid. The reaction cours cold with a remarkle and with all phentic acid. The reaction of the potential conduct the all phentic acid. The reaction of the potential conduct the all phentic acid. The reaction of the potential conduct the all phentic acid. The page is not provided the property of the phentic acid. The page is not provided to the page is not page is not provided to the page is not page is not

SOURCE CODE: UR/0192/65/006/005/0691,0698 L 33128-66 EWT(m)/EWP(1) ACC NR: AP6024164 51 AUTHOR: Kabachnik, M. I.; Mastryukova, T. A.; Matrosov, Ye. I.; Fisher, B. B ORG: Institute of Organoelemental Compounds, AN SSSR) Institut elementoorganicheskikh soyedineniy AN SSSR) TITE: Infrared spectra and structure of phosphorusmonothicacid salts SOURCE: Zhurnal strukturnoy khimii, v. 6, no. 5, 1965, 691-698 TOPIC TAGS: IR spectrum, phosphoric acid, organic phosphorus compound The infrared spectra of salts of diethylthiophosphoric ARSTRACT: and dimethylthiophosphoric acids were studied. It was shown that the anion of ammoniacal and alkali salts of these acids have a mesomeric structure with the distribution of ionic charge between the atoms of the triad. Salts of nonalkali metals of diethylthiophosphoric acid evidently have an intracomplex structure. Depending on the nature of the metal, the distribution of the bonds in the phosphorus moiety can approximate the thiolic (Cu, Ag, Zn, and Hg salts) or the thionic (Ca, Pb, and Mn salts) type. Salts of heavy metals of dimethylthiophosphinic acid also evidently are intracomplex in character, but their thionic character is more strongly pronounced. T. K. Nazarova and H. I. Volkova took part in the experimental phase of the work. The authors thank G. B. Shaltuper for his valuable advice during discussion of the work. Orig. art. has: 3 figures and 13 formulas. [JPRS] SUB CODE: 07 / SUBM DATE: 12Feb65 / ORIG REF: 017 / OTH REF: 015 Cord 1/1BK

L 34612-66. EWI(n)/EWP(1)ACC NR: AP6026575 SOURCE CODE: UR/0192/65/006/006/0832/0836 40 AUTHOR: Matrosov, Ye. I. ORG: Institute of Elemento-organic Compounds, AN SSSR (Institut elementoorganic eskikh soyedineniy) TITIE: Spectra and structure of salts of organophosphorus compounds. containing a methinediphosphinic group SOURCE: Zhurnal strukturnoy khimii, v. 6, no. 6, 1965, 832-836 TOPIC TAGS: organic phosphorus compound, anion, molecular structure, chemical bonding ABSTRACT: Calculations are presented for frequencies, forms of oscillations, and partial derivatives with respect to oscillation frequencies for different parameters for three models of an anion containing a methinediphosphinic group. Comparison of calculated frequencies for these models with frequencies of oscillation of the solium and potassium salts of bis-diphenylphosphinylmethane shows that salts containing the methinediphosphinic group have a symmetrical structure with equalised PO and PC bonds. This equality makes it possible to assume the formation of a single conjugated system of aromatic type bonds within the phosphoric pentade. The author thanks Academician M. I. Kabachnik and Professor L. S. Mayants for interest in the work and valuable comments. Orig. art. has: 2 tables. [JPRS: 36,455] 07 / SUBM DATE: 25Apr65 / ORIG REF: 004 / OTH REF: 006 UDC: 541.65

ATROSOV. Ye. I. Institute of Organism of Sciences USSR (Institut	elementoorganicheskikh soyedineniy AN SSSR)
"Spectra and Structure of Organophtaining the Diphosphinylimide Grow	nosphorus Salts. Salts Con- 4/
Moscow, Zhurnal Strukturnoy Khimii pp 366-369	
Abstract: In studying the structu	re of salts whose anion con-
cains the diphosphinylmethinyl gro	oup OPCHPO7 it was shown that
this anion possesses a symmetric s bonds whereupon the latter have an appeared of interest to study salt	increased frequency. It
imide group COPNPO and differing	1
that the methinyl group in them is and to trace the effect of this su	replaced by a nitrogen atom.
card 1/2	UDC: 541.67

Card 2/2

L 05208-67 ACC NR. AP7000755 the bonds in the anion. The structure of the salts with the diphoshinvlimide group had not been studied before. Results are presented on the calculation of the frequencies. vibration forms, and partial derivatives from the frequencies on the various parameters for a number of models of an anion containing the diphosphinylimide group. The comparison of the frequencies calculated for these models with the measured frequencies of the K-salt, 0.0',0''.0'''-tetraethylimidopyrophosphate indicates that the salts containing the diphosphiny-limide group has a symmetric structure with equalized Po and Pn bonds. The equalization of these bonds permits the assumption on the formation of a single conjugated system of bonds in the The equalization of these bonds permits the assumption limits of the phosphoric pentade which apparently is explained by the symmetry of the diphosphinylimide group. Academician M. I. Kabachnik, Professor L. S. Mayants and G. B. Shaltuper collaborated in the work. Orig. art. has: 1 figure and 1 table. [JPRS: 37,177] TOPIC TAGS: organic phosphorus compound, chemical bonding, imide SUB CODE: / SUBM DATE: 05Jun65 / ORIG REF: 009 / OTH REF: OOL

ACC NR. AP7011816

SOURCE CODE: UR/0192/66/007/005/0708/0714

OUR

AUTHOR: Matrosov, Ye. I.

ORG: Institute of Organoelemental Compounds, Academy of Sciences USSR (Institut elementoorganicheskikh soyedineniy AN SSSR)

TITLE: Calculation of characteristic vibrations in spectra of organophosphorus compounds. Vibrations of molecules containing one P=N- bond group

SOURCE: Zhurnal strukturnoy khimii, v. 7, no. 5, 1966, 708-714

TOPIC TAGS: spectrum, IR spectrum distortion, organic nitrogen compound

SUB CODE: 07

An investigation was made of the infrared spectra of organophosphorus ABSTRACT: compounds containing an isolated $\frac{1}{2}P=N-$ bond. A calculation was made of the vibrations of $Cl_3P=N-COCCL_3$ and $(C_2H_5O)_3P=N-P(O)(OC_2H_5)_2$, i.e., compounds containing, respectively, acylimide $\frac{1}{2}P=N-C=0$ or $\frac{1}{2}P=N-P=0$ groups. On the basis of the calculation it was shown that the earlier established relationship between the content of P=N groups in the molecules and the presence in their spectra of an intense absorption band in the region 1290-1415 cm⁻¹ was wholly validated, that is, absorption in their region actually corresponds to the vibration of the P=N group. In Cord.

ACC NR: AP7011816

this vibration, in addition to the P=N bond, coordinates of bonds and angles of substituents at the nitrogen atom also participate. An investigation was made of the effect of replacing substituents at the phosphorus and nitrogen atoms for the frequency of the P=N-vibration" with the use of calculated results and literature data. It was shown that replacement of the substituent at the phosphorus atom is only slightly reflected in the frequency of this vibration. Material in the literature on the frequencies of the "P=N vibrations" was compared with the nature of the substituent at the nitrogen. In the spectrum of (C2H5O)3P=N-P(O)(OC2H5)2 there are two bands, 859 and 751 cm⁻¹, that can be attributed to the vibration of the isolated P-N bond. It has been found that the "P-N-vibration" is complex: in addition to the P-N bond, many other coordinates also substantially participate in it. The author thanks Academician M. I. Kabachnik for his attention to the work and for valuable observations and G. B. Shaltuper for participating in the discussion. Orig. art. has: 2 figures, 2 formulas and 5 tables. [JPES: 40,351]

Card 2/2

PINSKER, A.Ye. [Pinsker, A.IE.], kand.tekhn.nauk; MATROSOVA, A.I.

Solubility of carbon disulfide in polyalkyl benzols. Khim.prom.

[Ukr.] mo.l:20-22 Ja-Mr '64. (MIRA 17:3)

YUR'YEV, V.A.; LOPATINA, N.I.; ZHAKHOVA, Z.N.; MATROSOVA, A.V.

Enzymatic properties of metamyosin. Biul.eksp.biol.i med. 58 no.7:54-57 Jl 164. (MIRA 18:2)

1. Biokhimi heskaya laboratoriya (zav. - dotsent V.A. Yur'yev) Instituta akusherstva i ginekologii (dir. - prof. M.A. Petrov-Maslakov) AMN SSSR, Leningrad. Submitted April 5, 1963.

KADYKOV, V.V.; YUR'YEV, V.A.; PRINTSEV, M.D.; MATROSOVA, A.V.

Characteristics of the protein composition of sarcoplasm in various muscles. Zhur. evol. biokhim. i fiziol. 1 no.3:205-212 My-Je '65.

(MIRA 18:7)

1. Kafedra biokhimii Leningradskogo pediatricheskogo meditsinskogo instituta.

MATROSOVA, I.A.

Mowing machine for operation at high speeds. Trakt. i selkhozmash. 32 no.3:36 Mr *62. (MIRA 15:2)

1. CKBS Lyuberetskogo sawoda sel'skokhozyaystvennogo mashinostroyeniya im. Ukhtomskogo.

(Mowing-machines)

MATROSOVA, I.A., insh.

The EXE-2, 1 mounted single-beam high-speed mover. Mashine-streenie no.3:103-105 My-Je '63. (MIRA 16:7)

1

1. OKBS Lyuberetskogo savoda im. Ukhtomskogo. (Mowing machines)

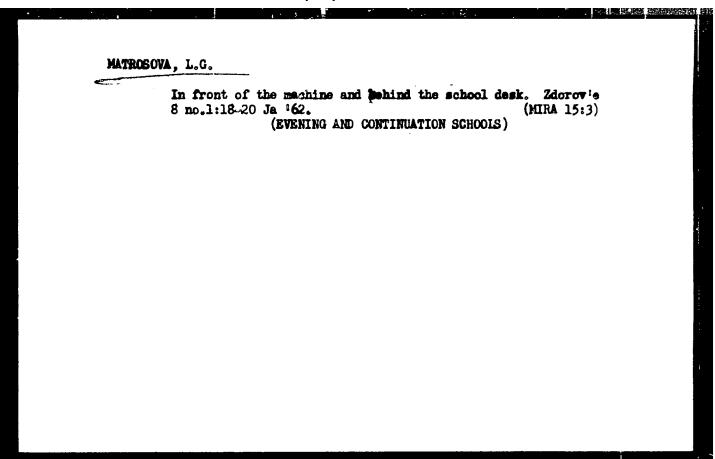
IVANOV, I.; MATROSOVA, K.; KONONOV, N.

State Bank business and people. Den.i kred. 19 no.5:49-55 My 161. (MIRA 14:5)

1. Zamestitel* upravlynymshchego Rostovskoy kontorcy Gosudarstvennogo banka (for Ivanov, Matrosova). 2. Glavnyy bukhgalter Vingitskoy eblastnoy kontory Gosudarstvennogo banka (for Kononov).

(Rostov Province—Banks und banking)

(Vinnitsa Province—Banks and banking)



MATROSOVA, M.F.; TIMASHEVA, Ye.P.

Production control at the Chirchik Electrochemical Combine.

Zav. lab. 30 no.1:115-116 '64. (MIRA 17:9)

KONDRATOVA, K.G.; KUZOVLEV, A.I.; GUREVICH, E.Ye.; MALEINA, A.P.; MATROSOVA, N.I.

Rendering cyanide in waste waters harmless with liquid chlorine. Stal' 24 no.10:946 0 '64. (MIRA 17:12)

1. Kosogorskiy metallurgicheskiy zavod.

	SOVA, N.S.			
Andrew Herry was heave that	Thermoconductometr	ic gas analysers. Thi	im.prom.no.7:422-425 0-E *56 (MERA 10:1)	5.
	1. Opytno-konstruk skoy promyshlennos	torskoye byuro avtom	atiki Ministerstva khimiche-	
	• • • • • • • • • • • • • • • • • • • •	(Heat-Conduction	n) (Gases-Analysis)	

Matros ova

AUTHORS:

Gukhman, B. S., Watrosova, N. S.

64-8-10/19

TITLE:

Portable Electrical Gas Analyzer of the Type WI To for the Determination of Combustible Gases and Vapors in the Air (Perenosnyy elektricheskiy gazoamalizator tipa Trodlya opredeleniya goryuchikh gazov i parov v vozdukhe).

PERIODICAL: Khimicheskaya Promyshlennost', 1957, Nr 8, pp. 41-45 (USSR)

ABSTRACT:

The gas analyzer Tro serves for the determination of combustible gases and vapors in the air and was produced in two variants: TIO 11-54 and TIO2-B3I. The device belongs to the type of thermochemical gas analyzers by means of which the thermal effect of the catalytic combustion of the analyzed gas-mixture-component which is heated by means of a platinum wire up to a certain temperature, can be measured. The device was produced for the first time in 1949 and differed from the other analogous devices by the fact that the gas does not trickle through the device and the gas sample is analyzed in a closed chamber. The greatest deflection of the needle of the galvanometer

occurs at the moment the current is switched in. In order to

Card 1/4

carry out the gas analysis according to this maximum deflection it is necessary to garantee a thermal symmetry in the

Portable Electrical Gas Analyzer of the Type TT of for the 64-8-10/19

Determination of Combustible Gases and Vapors in the Air

measuring- and comparison chamber. For this purpose the resistances of the platinum wires have to remain equal in the entire temperature range. The construction parameters of the device are determined according to the calculation- and experimental data. The basic characteristic of the gas analyzer with heated wire is: $\Delta t = f(Q)$. Δt is the temperature drop between the wire and the surrounding medium in °C, Q - the total heat liberated at the wire in the given current in the time unit, in cal/sec. Here the basic equation for the thermochemical gas analyzers is derived. According to this equation the sensitivity of the device is determined by 4 factors: By the sensitivity of the bridge scheme, the conditions for the heat transfer from the heated wire, the calorimetric constant of the analyzed gas, and the velocity of the catalytic reaction. The cas analyzer TT 4 11-54 is at present produced in portable style with a metal cover which is spraying- and

The gas analyzer V1 Q 11-54 is at present produced in portable style with a metal cover which is spraying- and dust proof 102 x 200 x 104 mm, with straps and a weight of 2,5 kg. With the gas analyzer it is possible to determine separately methane and hydrogen, in the case that both are present simultaneously in the gas mixture.

Card 2/4

Portable Electrical Gas Analyzer of the Type TIO for the 64-8-10/19 Determination of Combustible Gases and Vapors in the Air

The device is furthermore also produced in an explosionproof style T T & 2- B3T. The dimensions are the following: 230 x 115 x 137 mm, weight 5,6 kg. It is destined for the analysis of combustible gases and vapors of the first, second, and third category of the groups A, B, and can be used in closed chambers of the category B-1 and B-1A (chambers where combustible gases and vapors are separated in such a quantity that explosive mixtures can be produced). Both types were confirmed by the committee for norm, measures, and measuring devices of the Cabinet-Council of the USSR. The first device T I @ 11-54 serves for the determination of methane, hydrogen, and of the benzene B-70-vapors, the device TI & 2-B3T - for the analysis of methane, coke gas, benzene B-70-vapors, divinyl, ethylene, propane, ethyl-alcohol-vapors, and of the diethyl ester. The amounts of the measured concentrations can be increased up to the double by dilution with pure air which can be sucked in the ratio 1:1 to the analyzed gas. The devices were worked out by: M. M. Faynberg, M. M. Smakov, N. I. Pushkarskaya, B. S. Gukhman, N. G. Goryachev,

Card 3/4

Portable Electrical Gas Analyzer of the Type TTO for the Determination of Combustible Gases and Vapors in the Air 64-8-10/19

N. K. Prokof'yev, S. S. Temina.

The devices are produced in series by the works of Khar'kov of the trust Khimelektromontazh (city of Khar'kov).

There are 4 figures, 2 tables.

ASSOCIATION: Experimental-Construction-Office for Automation of the

MKhP (Opytno-konstruktorskoye byuro avtomatiki MKhP).

AVAILABLE: Library of Congress

Card 4/4

MATROSOVA N.S

GUKHMAN, B.S.: MATROSOVA, N.S.

Portable electric gas analyzer of the PGF type for the determination of flammable gases and vapors in the air. Khim. prom. no.8:489-493 D '57. (MIRA 11:2)

1. Opytno-konstruktorskove byuro avtometkhaniki Ministerstva khimicheskov promyshlennosti.

(Gas detectors)

AUTHORS:

Matrosova, N. S., Balakireva, Ye. P., SOV/64-58-4-15/20

Berman, S. I.

TITLE:

Thermochemical Gas Analyzer of the Type TKhG-5 (Termokhimicheskiy

gazoanalizator tipa TKhG-5)

PERIODICAL:

Khimicheskaya promyshlennost', 1958, Nr 4, pp. 253 - 254 (USSR)

ABSTRACT:

Thermochemical gas analyzers are produced in two types: in the one type the combustion takes place on a platinum wire which at the same time serves as thermocouple, in the other type a laminated catalyst is employed as well as a thermometer for measuring the heat effect. The second method has a few advantages so that an analyzer of this type, called TKhG - 5, was worked out by the OKBA (Experimental Construction Bureau for Automation). Platinum chloride on an aluminum oxide carrier was used as catalyst. The following apparatus were built among the further modifications: TKhG-5A with a scale 0 - 2% H₂ for the analysis of hydrogen in

electrolytic oxygen, TKhG -5B with a scale of 0 - 1% 02 for the

analysis of oxygen in electrolytic hydrogen, and TKhG-5 with scales 0 - 0,5% 0, and 0 - 1% 0, for the analysis of oxygen in generator gas. The error limit of the instrument is given as

Card 1/2

Thermochemical Gas Analyzer of the Type TKhG-5

SOV/ 64-58-4-15/20

3%; the authors give a diagram of this instrument and of the electric circuit with a corresponding description. The principle of measurement is based on the fact that an exothermal reaction is formed by the component of the gas mixture to be analysed, the heat formed being proportional to the amount of substance; the measurements are all carried out automatically. On the basis of the mentioned construction instruments can be produced for the analysis of hydrogen in a sample of industrial gases as well as of CO₂,SO₂,NH₃,CH₄ in the air, etc. There are 2 figures.

ASSOCIATION:

Opytno-konstruktorskoye byuro avtomatiki (Experimental Construction Fureau for Automation)

1. Gas analyzers--Performance 2. Gas analyzers--Equipment

Card 2/2

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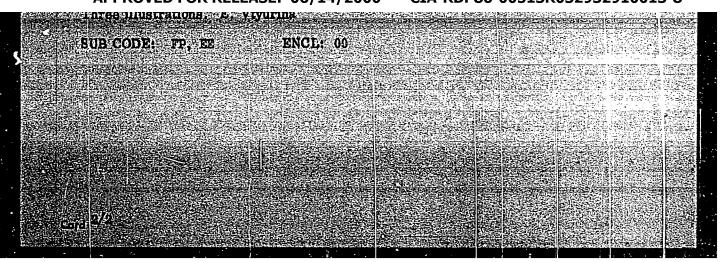
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APPROVED FOR RELEASE: 06/14/2000

platinum spiral, heated by an electric current to a predetermined temperature and connected into the circuit of an unbalanced measuring bridge. The article shows the pasto electrical diagram of the unit and the gassous element of the senser, and describes the british recipies to detect flammable that bring produced to detect flammable gases and vapors such as methans, hydrogen, acetylene, ethylene, 1,3-butadiene, etc.

Presillustrations C. Veuring

CIA-RDP86-00513R032932910013-8"



DENISOV, G.G., KOTEL NIKOV, V.M., MATROKHIN, N.S.

Effect of volley perforation on the intectness of casing strings.
Nefteprom. delo no.3:22-24 465. (MIRA 18:10)

l. Volgogradskiy nauchno-issledovatel'skiy institut neftyanoy i gazovoy promyshlennosti.

MATROSCUA, C.C.

SILAKUVA, V.V., kand.med.nauk; MATROSCUA, O.D.

Familial Pelger's muclear anomaly. Vrach.delo supplement '57:20 (MIRA 11:3)

1. Kafedra prodevticheskoy terspii (sev.-dots. L.I.Korobkov)

Ivanovskogo meditsinskogo instituta.

(LEUROCITES)

MATROSOVA, T. F.

Matrosovs, T. F. and Yershov, V. I. "On the problem of treating otogenous sepsis with pericillin", sbornik trudov Leningr. nauch.-issled. in-ta po boleznyam ukha, nose, gorla i rechi, Vol. 1X, 1943, p. 117-20.

50: U - 3042, 11 March 53, (Letopis "Zhurnal "nykh Statey, No. 7, 1949)

AUTHORS:

Kuchine, F. P., Tetrosove, T. V.

907/32-24-8-17 4

TIPLE:

News in Brief (Korotkiye soobshcheniya)

PERIODI TAL:

Zavodehaya Laboratoriya, 1958, Vol. 24, Hr 8, pp.958-358(USER)

ABCTRACT:

F. T. Nuchina of the Kuznetsk Matallurgical Mombinat (Fuznetskiy metallurgicheskiy kompinat) has worked out an ion-exchange method which can determine foron in one more quickly. This method uses the M-cationite My 1 and can determine as little as 0,1 — boron with an accuracy of <u>heads</u>. The determination requires 1 - 1,5 hours.

T. 7. If trospyd of the Laboratory of the Institute for the Analysis of Aluminum Alloys has worked out a new method for determining silicon in alloys in the range of 0,05 -.16.

Si. The method is based upon the reduction of ammonium silico-molyblates to molybdenum blue in ferrosulfate solution. In this reaction the silicic heir remains undissociated for a long time if sodium silicate is slowly poured into the hydrochloric acid solution (density - 1,1). If ter sev ral days a stable complex forms in this solution. The colorimetric determination was carried out using a **T*-II* apparatus with

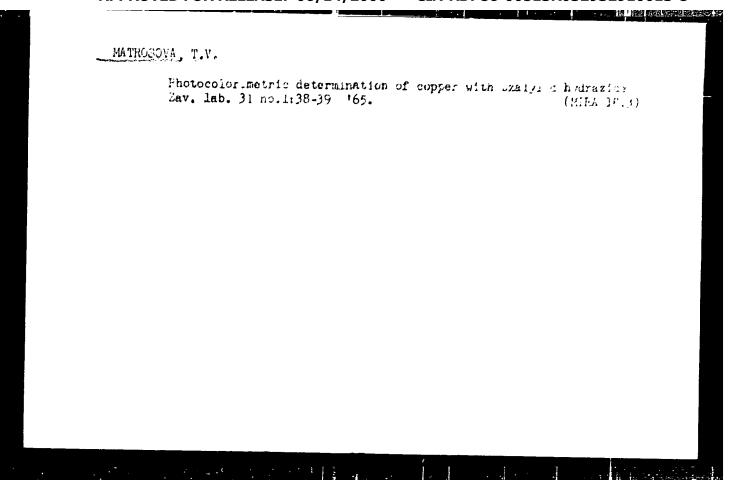
Card 1/2

red filter. The accuracy of the determination is 5,005 -	for s in Brief				904/30-24-3-17/4		
		red filter	. The	ccure cy	of the	determination	ie 0,005 -
	1						
and 2,11	and 2/1						

BUDANCVA, L.M.; MATROSOVA, T.V.

Complexemetric method for the determination of zinc in aluminum alleys. Zav.lab. 27 no.6:661-662 °61. (MIRA 14:6)

(Zinc--Analysis) (Aluminum alleys)



MATROSOVA, T.V.; ZUBKOVA, Z.A.

Determination of silicon in aluminium alloys and hardeners.
Zav. lab. 31 no.8:945-946 '65.

(MIRA 18:9)

GOR KOVA, S.A.; DUNAYEV, V.G.; MATROSOVA, V.R.; NAUMOVA, Ye.K.; STUDENTSOVA,

Comparative characteristics of the biological and antimicrobial effect of armin and its chlorinated analogue. Nauch. trudy Kaz. gos. med. inst. 14:151-152 464. (MIRA 18:9)

1. Kafedra mikrobiologii (zav. - dotsent Z.Kh.Karimova), kafedra farmakologii (zav. - dotsent T.V.Raspopova) Kazanskogo meditsinskogo instituta i kafedra organicheskoy khimii (zav. - prof. A.I.Razumov) Kazanskogo khimiko-tekhnologicheskogo instituta.

BREZGUNOV, V.S.; LIPIN, V.N.; MATROSOVA, V.R.; NAUMOVA, Y.K.

Comparative evaluation of the bactericidal properties of aquargen and antibiotics in pure microbial cultures and their associations. Nauch. trudy Kaz. gos. med. inst. 14:121-122 64.

(MIRA 18:9)

1. Kafedra mikrobiologii (zav. - dotsent Z.Kh.Karimova) i kafedra obshchey khimii (zav. - dotsent Ye.M.Kozyrev) Kazanskogo meditsinskogo instituta.

MATROSOVA, V.R.; NAUMOVA, Ye.K.; PUSENKOVA, I.V.

l. Kafedra mikrobiologii (zav. - dotsent Z.Kh.Karimova) i kafedra farmakologii (zav. - dotsent T.V.Raspopova) Kazanskogo meditsinskogo instituta.

VASIL'TEV, A.A.; GERSHMAN, M.B.; VASIL'YEVA, T.A.; Prinimali uchastiye:
MARASABUVA, A.N.; CHERBOEROVA, R.Ye.; MATROSOVA, V.S.

Preparation and properties of sulfonic acid homogeneous
nembranes. Zhur.prikl,khim. 35 no.10:2288-2294 0 '62.

(MINA 15:12)

(Sulfonic acid) (Nembranes (Chemistry))

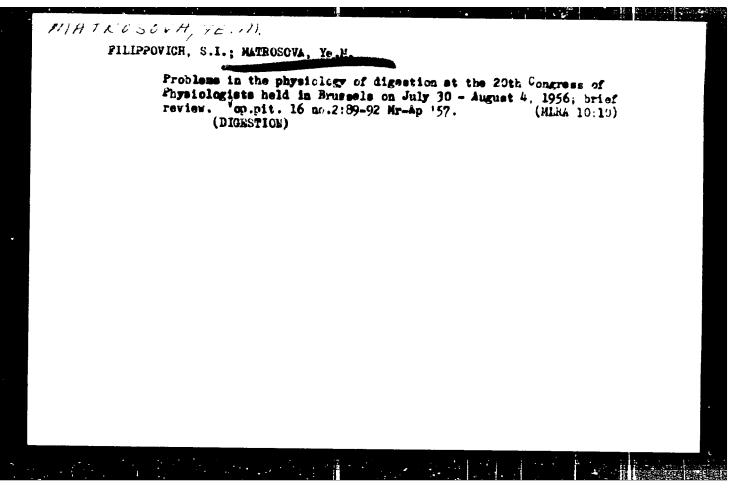
News from schools. Prof.-tekh. obr. 21 no.6:32 Je '64. (MIGA 17:9.

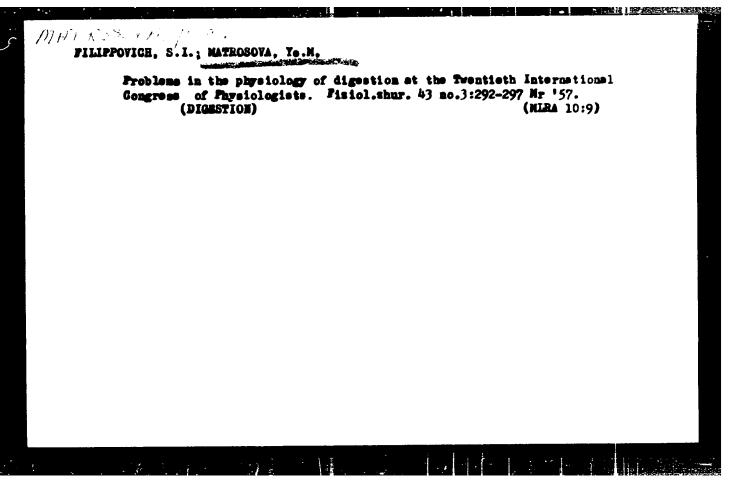
1. Starshiy inzh. Chuvashskogo respublikanskogo upravleniya professional no-tekhnicheskogo obrazovaniya (for Matrcsova).

MATROCOVA, YE. M.

MATROSOVA, YE. M.- "Analysis of Secretory and Motor Activity of Large a Comall emiof the Stomach in the Extirpation of Various Sections of the Irain Jorden in a Loud Acad Sci USSR, Inst of Physiology imeni I. P. Pavlov, Leminorad, 1977 (Discentagins for Degree of Candidate of Medical Sciences)

So: Knizhnaya Letopis' No. 26, June 1955, Nos ow





MATROSOVA, Ye. M.

Effect of the removal of different parts of the cerebral cortex on the motor activity of the greater and lesser curvature of the stomach. Trudy Inst. fisiol. 7:472-483 158. (NIBA 12:3)

l. Imboratoriya fiziologii pishchevareniya (sav. - A.V. Solov'yev) Instituta fiziologii im. I.P. Pavlova AH SSSR. (CEREBRAL CORTEX) (STOMACH)

MATROSOVA, Ye.M.

Study of the secretion mechanisms and motor abilities of the stomach in eating. Nauch. soob. Inst. fiziol. AN SSER no.1:104-106 '59. (MIRA 14:10)

1. Laboratoriya fiziologii pishchevareniya (sav. - A.V.Solov'yev)
Instituta fiziologii imeni Pavlova AN SSSR.
(STOWACH_SECRETIONS)

MATROSOVA, Ye. N.; SOLODKINA, O.V.

Recording the motor function of isolated peuches from the lesser and greater curvature as a method for analyzing the motor activity of the stomach. Trudy Inst.fiziol. 8:281-289 *59. (MIRA 13:5)

1. Laboratoriya fiziologii pishchevareniya (saveduyushchiy - A.V. Solov'yev) Instituta fiziologii in. I.P. Pavlova AH SSSR. (STOMACH)

SOLOV'YEV, A.V.; MATROSOVA, Yo.M.

Relationship between gastric and pancreatic activity. Fisiol.shur. 45 no.10:1263-1271 0 '59. (MIRA 13:2)

1. Laboratoriya fisiologii pishchevareniya Instituta fisiologii im. I.P. Pavlova AH SSSR, Leningrad.

(GASTRIC JUICE)

(PARCREATIC JUICE)

MATROSOVA, Ye.M.; SOLOV'YEV, A.V.; TROITSKAYA, V.B.

Problems of digestion and mutrition in the work of K.M. Bykov. Trudy Inst. fisiol. 9:24-31 60. (MIRA 14:3)

1. Laboratoriya fiziologii pishchevareniya (zaveduyushchiy - A.V. Solov'yev) Instituta fiziologii im. I.P.Pavlova.

(BYKOV, KONSTANTIN MIKHAILOVICH, 1886-)

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MATROSOVA, Ye.M.

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